



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Madkour et al.

Serial No.:

Filed: Herewith

For: System, Method and Apparatus for Wireless Channel Parameter Estimation
in Spread Spectrum Communication Systems

Examiner:

Art Group:

Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

As listed on the accompanying form PTO-1449, submitted herewith are copies of the indicated references which applicant believes may be material to the examination of the above-identified application, and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made, an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists. Further, the filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Written notification that the enclosed references have been considered in their entirety by return of a copy of the enclosed form, completed by the Examiner, is respectfully requested.

**IDENTIFICATION OF TIME OF FILING THE
INFORMATION DISCLOSURE STATEMENT**

- ☒ This Information Disclosure Statement is being filed within three months of the filing date of the national application.
- ☐ This Information Disclosure Statement is being filed within three months of the date of entry of the national stage as set forth in §1.491 in an international application.

- [] This Information Disclosure Statement is being filed before the mailing date of the First Office Action on the merits.
- [] This Information Disclosure Statement is being filed after three months of the filing date of the national application or after three months of the date of entry of the national stage as set forth in § 1.491 in an international application or after the mailing date of the first Office Action on the merits, but before the mailing date of either a final action under § 1.113 or a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application.

Accompanying this transmittal is:

- [] a statement specified in 37 CFR § 1.97(e); or
- [] a fee set forth in 37 CFR § 1.17(p)
- [] This Information Disclosure Statement is being filed after the mailing date of a final action under § 1.113, or a notice of allowance under § 1.311 but before the payment of the issue fee.

Accompanying this transmittal is:

1. a statement as specified in 37 CFR § 1.97(e); and
2. a fee set forth in 37 CFR § 1.17(p)

STATEMENT FOR INFORMATION DISCLOSURE STATEMENT 37 CFR 1.97(e)
(Only if Required Above)

I, the person(s) signing below hereby states that:

- [] each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. 37 CFR § 1.97(e)(1); or
- [] no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in the counterpart foreign application to the knowledge of the person signing the certification after making reasonably inquiry, no item of information contained in the information disclosure statement

was known to any individual designated in a § 1.56(c) more than three months prior to the filing of the information disclosure statement. 37 CFR § 1.97(e)(2).


FEE PAYMENT

☐ attached is a check in the amount of \$ _____

☐ charge Deposit Account No. 07-0153
in the amount \$ _____

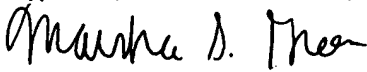
A duplicate of this request is attached. Applicant believes no additional fees are due for the filing of this IDS. However, if any additional fees are due, or any overpayments have been made, please charge, or credit, Deposit Account No. 07-0153.

Dated: June 20, 2001


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EXPRESS MAIL" mailing label # EL777479825US
Date of Deposit: June 20, 2001. I certify that the accompanying Application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed" to Box Patent Application, Commissioner for Patents, Washington, DC 20231.



Marsha S. Green

FORM PTO-1449 (REV. 7.80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 64645-1043		SERIAL NO.:	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Madkour et al.			
				FILING DATE: June 20, 2000		GROUP	
U. S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (if appropriate)
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Madkour, Mohamed F. Gupta, S.C., Wang, Yi-Pin E., A Novel Downlink Blind Interference Cancellation in a W-CDMA Mobile Communications System, Proceedings of the IEEE Wireless Communications and Networking Conference, WCNC '99, New Orleans, Sept. 21-25 1999.						
	Madkour, Mohamed F., Gupta, S.C., Wang, Yi-Pin E., A Subspace Projection Based Blind Interference Cancellation Scheme for W-CDMA Downlink, Proceedings of the 33 rd Asilomar Conference, Pacific Grove, CA, Oct. 24-27 1999.						
	Hottinen, Ari, Holma, Harri, Toskala, Antti, Multi-User Detection for Multirate CDMA Communications, Nokia Research Center, Irving, Texas, USA and Helsinki, Finland, IEEE, 1996 pp 1819-1823						
	Juntti, Markku J., System Concept Comparisons for Multirate CDMA with Multiuser Detection, University of Oulu, Telecomm Lab., Oulu, Finland, 1998 VTC '98 IEEE, pp. 36-40						
	Johansson, Ann-Louise, Svensson, Arne, Successive Interference Cancellation in Multiple Data Rate DS/CDMA Systems, Chalmers University of Technology, Department of Information Theory, Gothenburg, Sweden, 1995 IEEE pp. 704-708						
	Patel, Pulin, Holtzman, Jack, Analysis of a Simple Successive Interference Cancellation Scheme in a DS/CDMA System, IEEE Journal on Selected Areas in Communications, Vol. 12, No. 5, June 1994, pp796-807						
EXAMINER				DATE CONSIDERED			
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							